

AMENDMENTS TO THE CLAIMS

1. (currently amended) A process for preparing supported, titanized chromium catalysts, which comprises the following steps:
 - A) bringing a support material into contact with a protic medium having a water content less than 20% by weight and comprising a titanium compound and a chromium compound[[,]];
 - B) optionally removing the solvent, protic medium, thereby forming a precatalyst;
 - C) optionally calcining the precatalyst obtained after step B); and
 - D) optionally activating the precatalyst obtained after step B) or C) in an oxygen-containing atmosphere at from 400°C to 1100°C.
2. (currently amended) ~~A~~The process as claimed in claim 1, wherein the support material is a silica gel.
3. (currently amended) ~~A~~The process as claimed in claim 1-~~or~~2, wherein the chromium compound is an inorganic chromium compound.
4. (currently amended) ~~A~~The process as claimed in claim 3, wherein the inorganic chromium compound is chromium(III) nitrate nonahydrate.
5. (currently amended) ~~A~~The process as claimed in ~~any of claims 1 to 4~~claim 1, wherein the titanium compound is titanium tetraisopropoxide, titanium tetra-n-butoxide or a mixture of these two titanium compounds.
6. (currently amended) ~~A~~The process as claimed in ~~any of claims 1 to 5~~claim 1, wherein the protic medium is methanol.

7. (currently amended) A catalyst system obtainable obtained by a process as claimed in any of claims 1 to 6 comprising:

A) bringing a support material into contact with a protic medium having a water content less than 20% by weight and comprising a titanium compound and a chromium compound;

B) optionally removing the protic medium, thereby forming a precatalyst;

C) optionally calcining the precatalyst obtained after step B); and

D) optionally activating the precatalyst obtained after step B) or C) in an oxygen-containing atmosphere at from 400°C to 1100°C.

8. (currently amended) A process for preparing polyolefins by polymerization or copolymerization of comprising polymerizing or copolymerizing olefins in the presence of a catalyst system as claimed in claim 7 obtained by a process comprising:

A) bringing a support material into contact with a protic medium having a water content less than 20% by weight and comprising a titanium compound and a chromium compound;

B) optionally removing the protic medium, thereby forming a precatalyst;

C) optionally calcining the precatalyst obtained after step B); and

D) optionally activating the precatalyst obtained after step B) or C) in an oxygen-containing atmosphere at from 400°C to 1100°C.

9. (currently amended) AThe process as claimed in claim 8, wherein ethylene or a monomer mixture of at least one of ethylene and/or and C₃-C₁₂-1-alkenes containing at least 50 mol% of ethylene is used as monomer(s) in the polymerization.